PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference W1796-000000				FOR FURTHER A	CTION	See Form PCT/IPEA/416				
International application No.				International filing date (day/month/year)		Priority date (day/month/year)				
PCT/JP2004/009841				09.07.200	4	11.07.2003				
International Patent Classification (IPC) or national classification and IPC										
C08B30/12, A23K1/16, A23L1/0522, A61K9/20, 47/36										
Applicant Asahi Kasei Chemicals Corporation										
1.	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
2.	This REP	ORT consists	of a total of	4	sheets, including	g this cover sheet.				
3.	This repor	rt is also accou	mpanied by A	NNEXES, comprising:						
	a. 🛛	(sent to the	applicant and	to the International Bu	reau) a total of 5	sheets, as follows:				
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.									
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))									
	_	•		•	· ••					
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4.	This repo	rt contains ind	ications relati	ng to the following iten	15:					
	В	ox No. I	Basis of the	report						
	В	ox No. II	Priority							
	В	ox No. III	Non-establi	shment of opinion with	regard to novelty, invent	tive step and industrial applicability				
	В	ox No. IV	Lack of unit	ty of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
	В	lox No. VI	Certain doc	uments cited						
	В	ox No. VII	Certain defe	ects in the international	application					
	Box No. VIII Certain observations on the international application									
Date of submission of the demand				Date of completion of th	uis report					
Name and mailing address of the IPEA/JP					Authorized officer					
Facsimile No.					Telephone No.					

Translation



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/009841

Box	No. I	Basis of the report		
1.		regard to the language, this report is based on the internation ated under this item.	al application in the language in v	which it was filed, unless otherwise
		This report is based on translations from the original language which is the language of a translation furnished for the purpo		,
		international search (Rule 12.3 and 23.1(b))		
		publication of the international application (Rule 12.4)		
		international preliminary examination (Rule 55.2 and/o		
2.	recei	regard to the elements of the international application, this iving Office in response to an invitation under Article 14 are report): the international application as originally filed/furnished	report is based on (replacement sign referred to in this report as "or	heets which have been furnished to the iginally filed" and are not annexed to
	\boxtimes	the description:		
		pages 1-5, 8-33		as originally filed/furnished
		pages*6,7,7/1	received by this Authority on	28.04.2005
		pages*	received by this Authority on	
	\boxtimes	the claims:		
		nos. 1-6		as originally filed/furnished
		nos.*	as amended (together	with any statement) under Article 19
		nos.* 7,8,11-13	received by this Authority on	28.04.2005
		nos.*	received by this Authority on	
	\boxtimes	the drawings:		
		sheets Fig. 1-12		as originally filed/furnished
		sheets*	received by this Authority on	
		sheets*	received by this Authority on	
		a sequence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence Li	isting.
3.	\boxtimes	The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos. 9,10		
		the drawings, sheets/figs		
		any table(s) related to sequence listing (specify):		
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fil	ments annexed to this report and led, as indicated in the Supplemen	listed below had not been made, since tal Box (Rule 70.2(c)).
		the description, pages		
		the claims, nos.		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
	If ite	em 4 applies, some or all of those sheets may be marked "sup-		



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/009841

Box No. V		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement						
	Novelty (N	D	Claims 1-8, 11-13	_ YES			
			Claims				
	Inventive step (IS)		Claims 1-8, 11-13	YES			
			Claims				
	Industrial applicability (IA)		(IA) Claims 1-8, 11-13	YES			
			Claims				
2.	Citations and e	explanations	s (Rule 70.7)				
	Documer	nts ci	ited in the international search report				
	Documer	nt 1:	JP 10-195104 A (Nihon Shokuhin Kako Co.,				
			Ltd.), 28 July 1998				
	Documer	nt 2:	(
			January 1995				
	Documer	nt 3:					
	_		1992				
	Documer	nt 4:					
	_		Ltd.), 12 November 1986				
	Documer	nt 5:	JP 8-143602 A (Shimada Chemical Co., Ltd.),				
	D		4 June 1996				
	Documer	nt 6:	JP 4-318001 A (Asahi Chemical Industry Co.,				
	D. a. a	7.	Ltd.), 9 November 1992				
	Documer	16 /:	• · · · · · · · · · · · · · · · · · · ·				
			Ltd.), 12 January 1982				
	Claims	1-8 a	and 11-13)				
	Th	ne inv	ventions set forth in claims 1-8 and 11-13 are				
	not disclosed in documents 1-7 and could not be conceived						
	easily	from	any of these documents.				
	Th	nerefo	ore, claims 1-8 and 11-13 involve an inventive				
	step.						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/009841

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1-6 relate to functional starch powder which has a water-holding capacity of 400% or more, a collapse time of 5 hours or more and a gel indentation load of 200 g or more; however, the only such powder disclosed in the sense of PCT Article 5 is the functional starch powder presented in the examples, etc., made by a method described in claims 7, 8, 11 and 12, i.e. the method described in claim 13, starting from potato starch; and there is no technical basis for extending this to all other functional starch powders which have a water-holding capacity of 400% or more, a collapse time of 5 hours or more and a gel indentation load of 200 g or more.

Therefore, claims 1-6 are deemed not to be fully supported by the description in the sense of PCT Article 6.